

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claims 1 to 10. (Canceled).

11. (Currently Amended) An afterburner for afterburning a residual gas from at least one of a reforming process and a fuel cell process, comprising:

at least one nozzle to meter fuel and the residual gas into a combustion chamber;

at least one device for providing an air supply; ~~[[and]]~~

a heat-resistant, open-pore ceramic foam for at least partially filling the combustion chamber; and

an ignition device one of installed and formed in the ceramic foam,

wherein the ceramic foam includes silicon carbide.

12. (Previously Presented) The afterburner as recited in Claim 11, wherein: the afterburner is for a chemical reformer intended for procurement of hydrogen.

Claim 13. (Canceled).

14. (Previously Presented) The afterburner as recited in Claim 11, wherein: the ceramic foam includes open pores via reticulation.

15. (Previously Presented) The afterburner as recited in Claim 11, wherein: the ceramic foam can be heated electrically.

16. (Previously Presented) The afterburner as recited in Claim 11, wherein: the ceramic foam is in good heat-conducting contact with at least one part of a wall of the combustion chamber.

17. (Previously Presented) The afterburner as recited in Claim 11, further comprising:
a catalytic layer for at least partially covering the ceramic foam.

18. (Previously Presented) The afterburner as recited in Claim 17, wherein:
the catalytic layer includes platinum.

Claim 19. (Canceled).

20. (Currently Amended) The afterburner as recited in Claim ~~[[19]]~~ 11,
wherein:
the ignition device includes one of an electric glow filament and a glow
plug.

Claim 21. (Canceled).

22. (Previously Presented) The afterburner as recited in Claim 11, wherein:
the at least one nozzle includes one of a swirl nozzle and a multi-orifice
nozzle.